UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
BUREAU OF COMMERCIAL FISHERIES
BIOLOGICAL LABORATORY
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Sea-surface Temperature Charts, Eastern Pacific Ocean
January 1960

Prepared by

The Staff of the Bureau of Commercial Fisheries
Biological Laboratory, San Diego, California

Introduction

This is the first of a series of sea-surface temperature charts that will be prepared and issued monthly by the Bureau of Commercial Fisheries Biological Laboratory, San Diego, California. Upon completing December 1959 charts, the Biological Laboratory, Honolulu will discontinue issuance of the ten-day period charts. The present series will be based on observations for a calendar month instead of the middle ten-day period, except that from time to time supplementary charts will be issued which will cover selected areas and time periods. The first of the supplements is expected to appear as a ten-day period chart in April or May 1960 and will cover essentially the albacore fishing area off the coast of North America. Supplementary charts will be issued frequently during the albacore fishing season but will not effect the issuance of the regular monthly charts. Ultimately, information and notes on tuna ecology will be included with the monthly charts and the series will be issued as an official publication of the Fish and Wildlife Service as a service to the U. S. tuna industry. Until such time as approval is received for an official publication, the charts will be issued as a research project. Comments and suggestions from interested parties are solicited and should be addressed to:

Director, Biological Laboratory
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Acknowledgments

The following organizations and stations contributed data for the January 1960 charts:

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Pacific Oceanographic Group, Nanaimo, B. C., by H. J. Hollister from observations by R. W. Collins at Kains Island Light, J. A. Bournazel at Cape St. James Light, E. A. Hartt at Langara Island Light and B. Stuart at Amphitrite Point Light
Scripps Institution of Oceanography, La Jolla, California, by Margaret Robinson and Hans Klein
Ships Delfino, Hawaiian Lumberman, and President Garfield
Tuna Clipper Navigator

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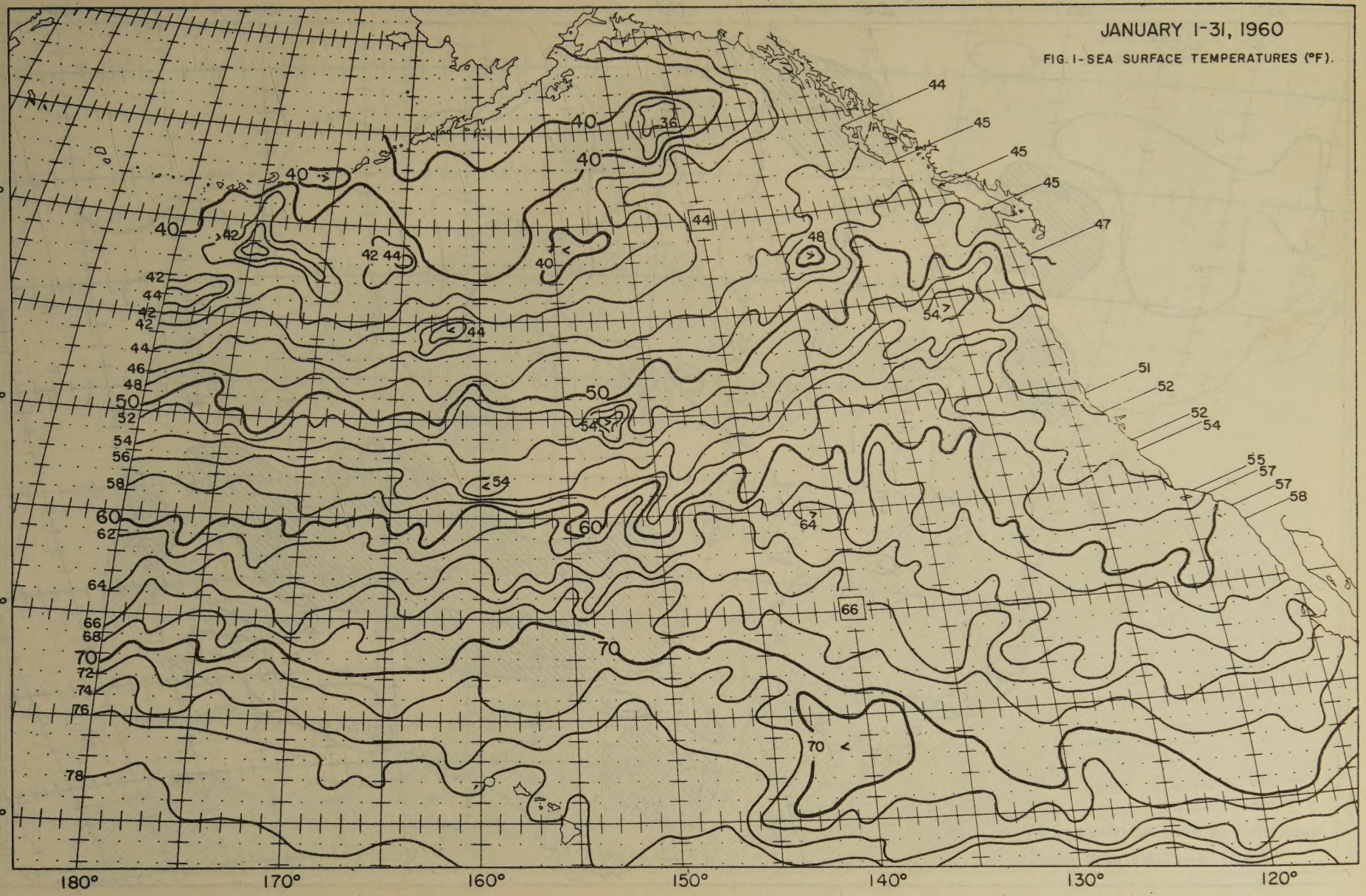
Figure 2.--Deviation of sea-surface temperatures (°F) from 30-year mean. Hatched areas are colder than mean.

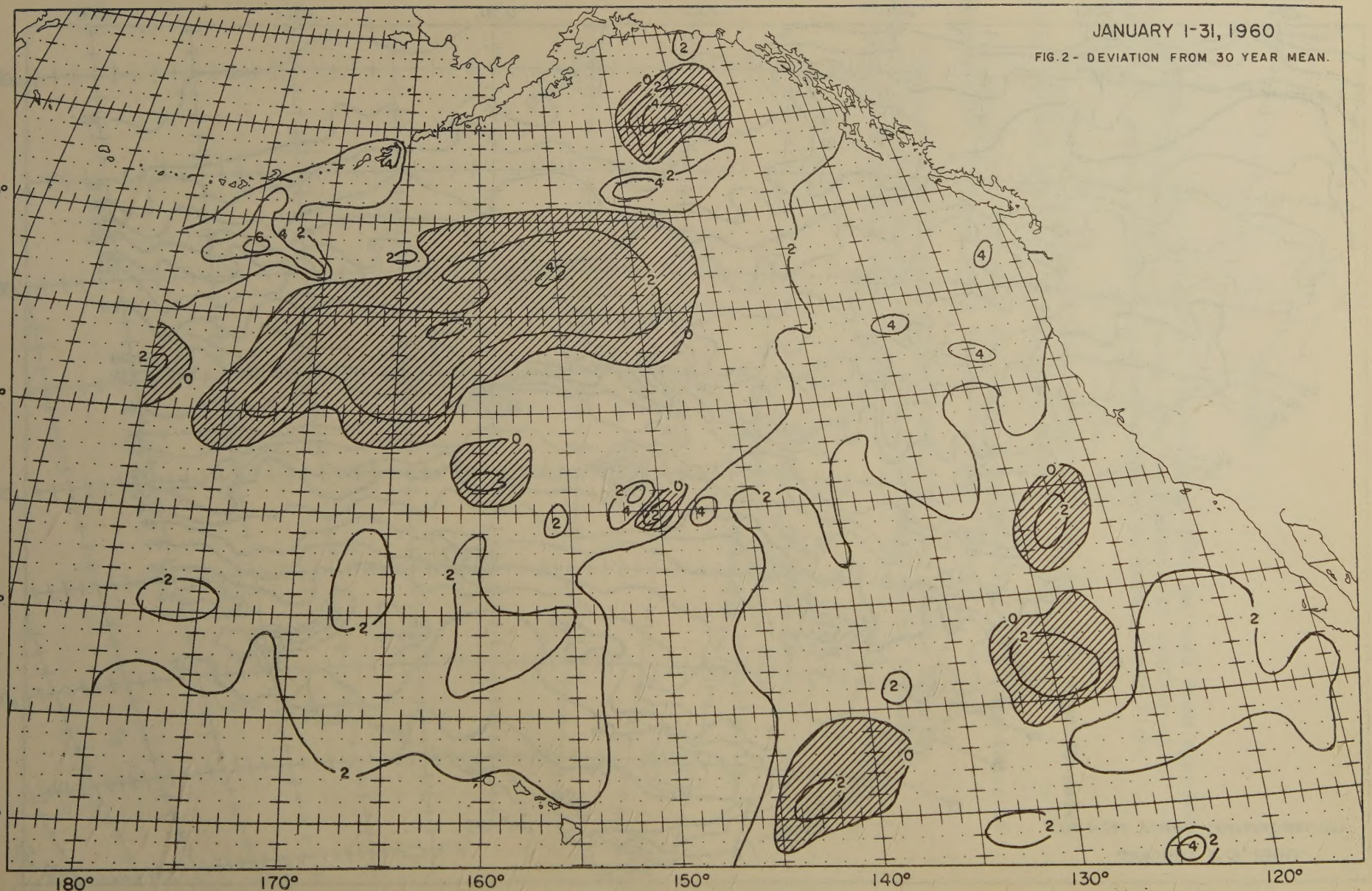
Figure 3.--Deviation of sea-surface temperatures (°F) from those of January 1959. Hatched areas are colder than 1959.

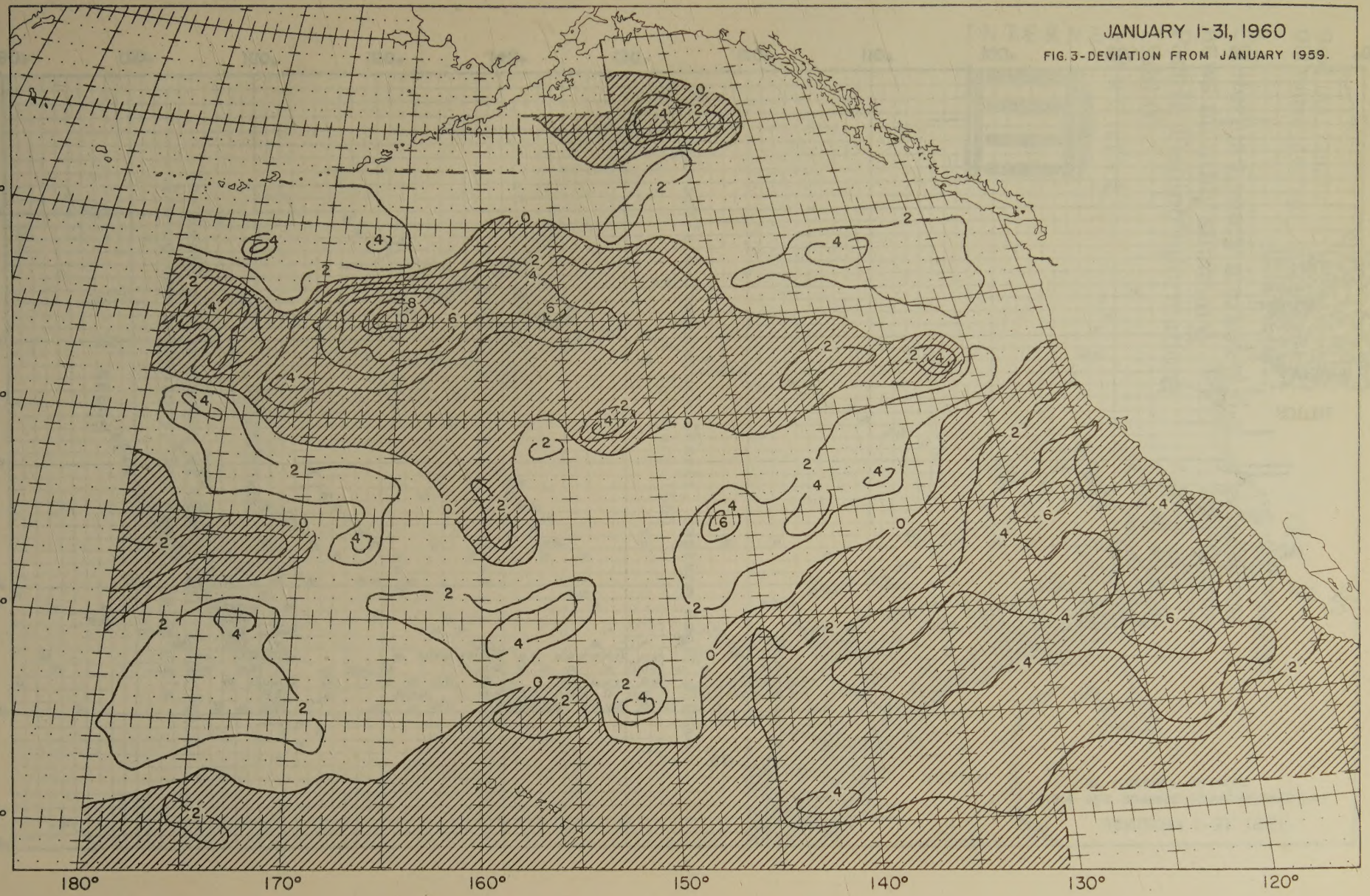
Figure 4.--Sea-surface temperatures (°F) by 1-degree squares approximately 2000 observations. Line under temperatures indicates average of two or more observations.

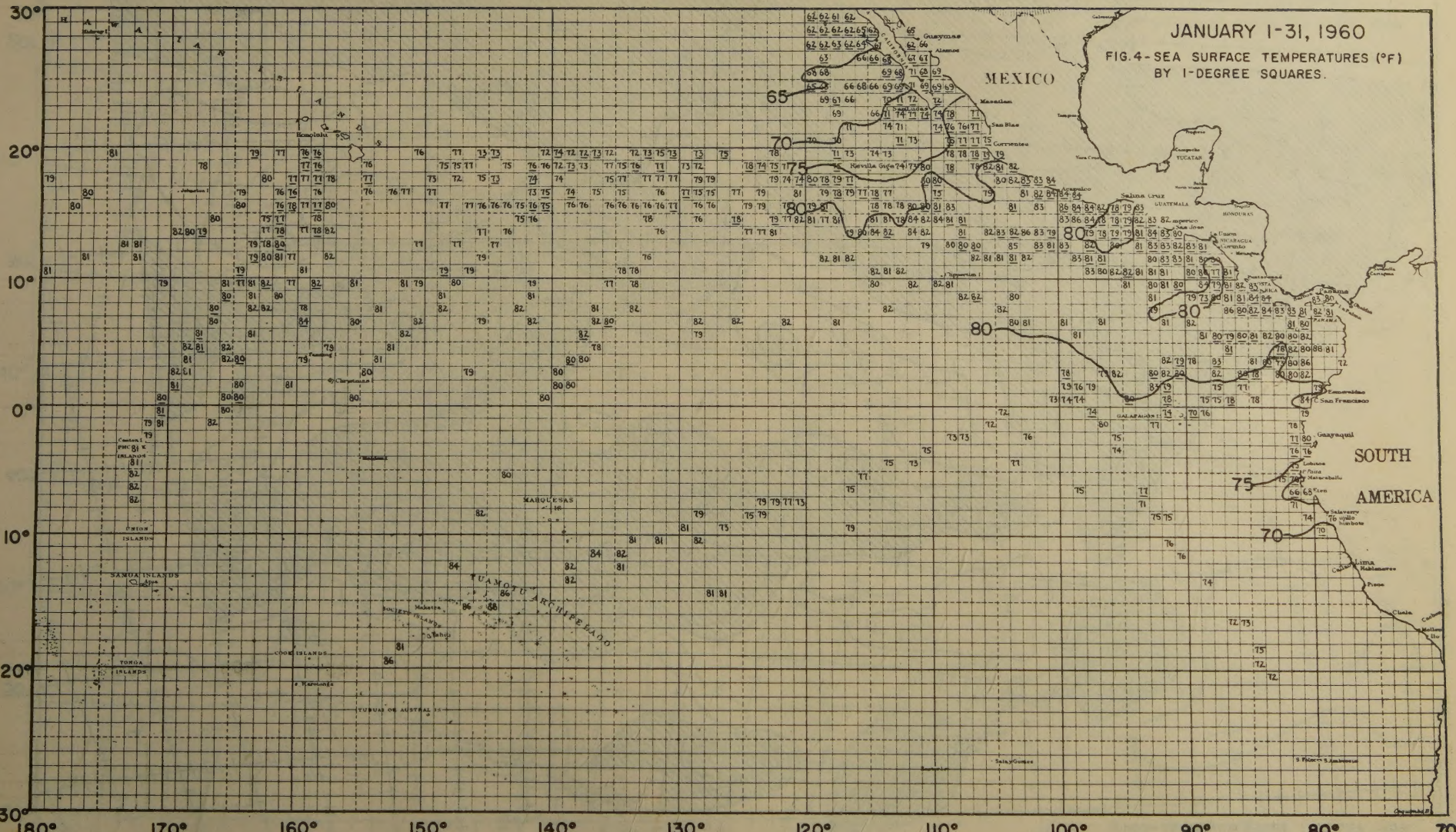
James H. Johnson

James H. Johnson, Chief
Tuna Forecasting Investigation


JANUARY 1-31, 1960
FIG. 1-SEA SURFACE TEMPERATURES (°F).
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1960
FIG. 2 - DEVIATION FROM 30 YEAR MEAN.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1960
FIG. 3-DEVIATION FROM JANUARY 1959.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


JANUARY 1-31, 1960
FIG. 4 - SEA SURFACE TEMPERATURES (°F) BY 1-DEGREE SQUARES.
MEXICO
SOUTH AMERICA
30°
20°
10°
0°
10°
20°
30°
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°